



Stop to it!
 Sometimes you may have to wait. The troubles that have been yours in gathering grain are always being cleared away in a day. For all the dissensions and dissensions peculiar to winnowed, Dr. Paro's Expectorant is the cure and the cure is based upon that—but if your case is obstinate, give it reasonable time.

It is an expectorating, restorative tonic, a soothing and strengthening agent, a purgative specific for female weaknesses and ailments. All functional disturbances, painful menstruations and derangements are cured and cured by it.

It is a tonic, a stimulant, a tonic, a tonic, accompanied with faint spells and kindred symptoms are corrected.

In every case for which it is recommended, the patient is guaranteed to give satisfaction, if the money is refunded. No other medicine ever proven to sell on this principle. That proves that nothing can be offered by the doctor.

inland exchange and deposit. The institution was founded upon the expiration of the charter of the First National bank of the city in 1891. Through the immense transactions of the bank amounting to thousands of dollars every day, are conducted. The trade of this firm is almost wholly in Great Britain. The product of the merchant mill has been marketed in Europe exclusively for many years. Edward Middle, head of the firm, makes an annual journey abroad, visiting and selling direct to his customers without patronizing factors. In this way he has established an immense trade and has brought his American product in greater favor than that enjoyed by American, German or foreign manufacturers. Mr. Middle visits the Russian, Hungarian, German and Indian wheat of equal nutritive strength with our own, he has established the fact that American machinery produces superior results to that obtained from the use of European machinery.

The wheat for this mill is derived

from the Dakotas, Washington and Manitoba and seed for the foreign market as soon as made.

Edward Middleton has been for many years foremost in the development of the industries of central Michigan. It is largely through his effort that Greenville enjoys her present superior railway facilities. He is a director in the Grand Trunk branch known as the Toledo, Saginaw & Mackinaw railway, and prominently interested in other railway systems. Until the first National bank of Greenville was organized, he was the charter of the First National bank of Greenville. He was president of that institution.

The members of the firm of E. Mid-

300 horse power capacity, heated by a Starvater heater, lighted by an electric plant of its own of 300 incandescent light capacity, protected from fire by standpipes of its own, a monstrous reservoir in its factory tower, the city system and powerful pumps in the engine room. The machine rooms are abundantly lighted, ventilated, freed from dust and provided with cloak rooms, closets and lavatories. The men have a large 70,000 sq. ft. canteen. The arrangement of the factory is such as to take the product from the saws to the yards, from the yards to the kilns, thence to the machines, the cabinet

but will become the foremost institution of its kind in Michigan.

Riverside Park.

During the days of the greatest activity in lumber transactions of Michigan no firm was better known, and few had greater interests involved in its manufacture than Johnson Brothers. At that time they were owners and operators of mills both in Michigan and Wisconsin, and were engaged in the manufacture of lumber, lath, shingles and all kindred products. At Trufant they operated an extensive plant and were engaged in cutting some of the

individuals. Their breeding speaks for itself, and a glance at their pedigrees reveals the choicest blood lines in the world.

Our brood mares are a choice lot individually, many producing dams and dams with records are represented. Our facilities for keeping stock are unsurpassed, and every attention is given them that could be desired.

Our young stock has been bred with great care, in the most fashionable breeding lines.

We breed to sell, and any animal at Riverside Park will be priced upon application. Correspondence is solicited, and visiting horsemen will be made

The valves or the air duct of the grate, which, under certain conditions, tend to become more or less obstructed by the deposit of solid matter. This is especially true where "culm" or "slack" is used as fuel.

The flanged blast pipe that enters the side wall of the furnace and extends across the ash pit, underneath the back end of the grate, as shown in the illustration, is of cast iron. As will be seen, it is made up of short tees bolted together. Each tee is carefully fitted in its flange so that its length corresponds exactly with the width of the blast grate immediately above it. In like manner

A black and white illustration of a historic building, likely a mill, with a sign that reads "CUSTOM MILLS". The building has a gabled roof and a chimney. In the background, there is a smaller building with a similar architectural style. The illustration is framed by a decorative border.

The plant of the institution once known as *Maverick*, 5,602 Vol. 7, and by student #690, 2184, are the same. In 1920 it was 2:30 and better and one of fifteen sons and six of thirty-ones in 2:30 and better and seven of sixteen daughters came at seventeen in 2:30 and better.

Grass - collected from grass.

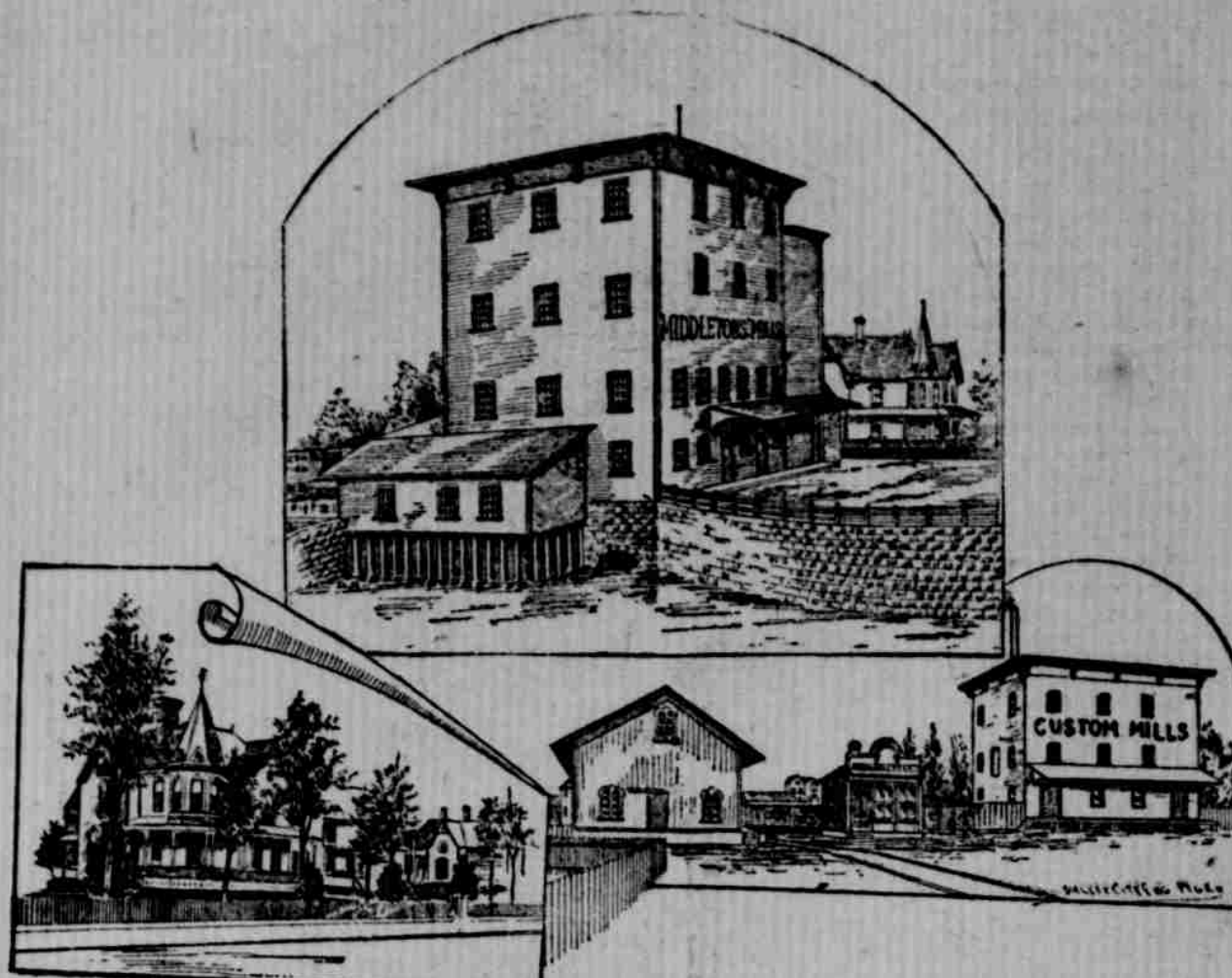
The first sweep of vision which the traveler surveys upon alighting at the railway station at Greenville, are these enigmatic sentences displayed in bold lettering across the front of a huge building: "Steamship Lines of New York City Steam? We Can Help You." The building is that of the Gordon Hollow Blast Grate company, and the assuring import of the inscription relates to the offer of the company to supply fuel for the combustion of green sawdust, tanbark and other non-combustible fuels.

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ordinary bar grates, which admit the necessary discharge of ashes into the pit below. The whole device is simple in construction, and is easily constructed, as the draught through the grate bars prevent their burning out, or even becoming once overheated. The draught on the hollow grate keeps the chimney tall and open.

The principle of the grate is that involved in the construction of the blacksmith's tuyere.

The proof of the value of an invention is its use. The Gordon hollow grate blast gate is no exception, yet, judged by this standard it is an eminent success. The illustrated catalogue of the firm contains a list of endorsements from leading manufacturers throughout the country. The invention has been severely tested for consuming all kinds of fuel, including coal dust and refuse, saws, wet and green wood, and has been found to be successful in every case. In fact, no kind of fuel can escape combustion when it is used.



The Middleton Mills and Residences

dition & Sons are: Edward Middleton, general manager, and Charles W. and E. W. The sons take the burden of the detail of the business upon themselves, buying wheat in the west and superintending the plant alternately. The firm owns the entire water power of Flat river, one of the best, if not the best, in Michigan. Adjacent to the mills are the residences of the members of the firm, that of E. Middleton being a stately monument to modern architecture.

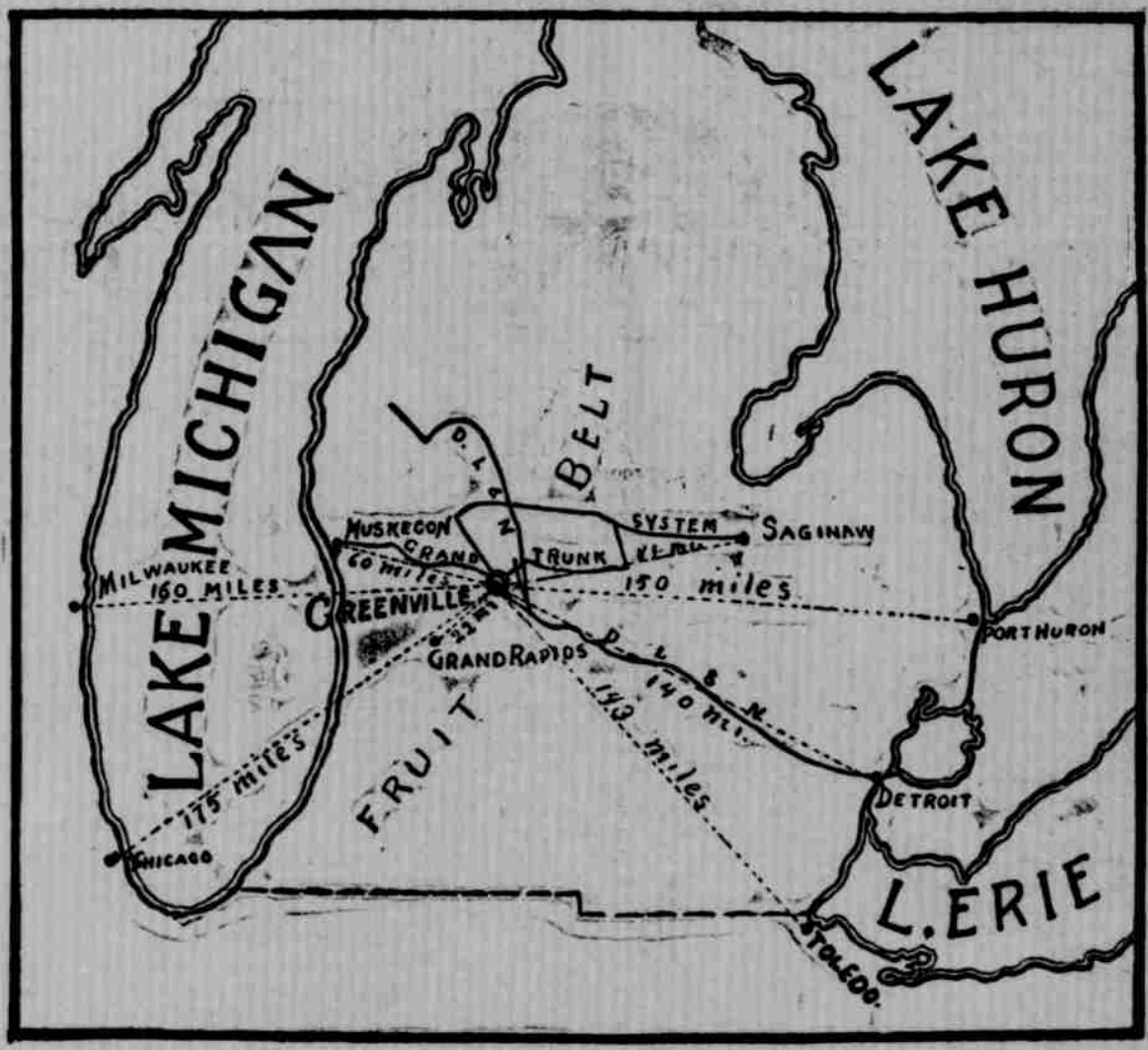
The Mannay Refrigerator Company.

The latest, as well as one of the largest institutions of Greenville, is the Mannay Refrigerator plant. The com-

rooms, the metal room, the finishing room, the warehouse and the cars, in a convenient and expeditious series of transitions, so as to subserve the highest economy of time and effort.

The product of the plant will be hardwood refrigerators, ice chests and other refrigerators of the highest type, sold under the suggestive trademark name of "Lapland" products. The aim will be to present a better article than has heretofore been put upon the market. To do this oak will be substituted for all other woods, while the use of the best of the modern and compartment construction will be far in advance of anything heretofore shown. The trimmings and designs

With the decline of the lumber industry in Wisconsin, the firm, now possessed of an adequate competency to permit of a luxurious residence for their retreating days, disposed of their manufacturing interests, and retained only their extensive holdings of real estate. Their lumbering activities were represented by the cut of 3,000 acres in Montcalm county, this state, and 12,000 acres in Wisconsin. The swains of this enormous acreage were invested in the State of New York, and these real-estate investments have proved profitable. Aside from their real estate holdings incidentally the firm is engaged incidentally in



Greenville Transportation Lines.

pany takes its name from Mr. F. E. Ranney, its president and general manager, formerly the moving spirit of Belding's most important industries. He comes to his new field of operation fresh from the successful management of institutions of similar character, in which he distinguished himself for his intrepid valor and rare business sagacity. In coming to this newer and broader field, he takes in hand a superior plant and, with maturer judgment, will carry it to an industrial prominence far beyond the possibilities of the plant which he left behind.

The catalogue of the firm, now all ready in the hands of the trade, presents an array of beautiful designs and artistic creations never before shown in such a publication. Already the office is over-run with orders for these goods.

The Ranney company is a corporation, organized in 1892. Its officers are: President, F. E. Ranney; vice president, C. T. Ranney; secretary, W. D. Lewis; treasurer, W. D. Johnson. Its capital stock is \$50,000.

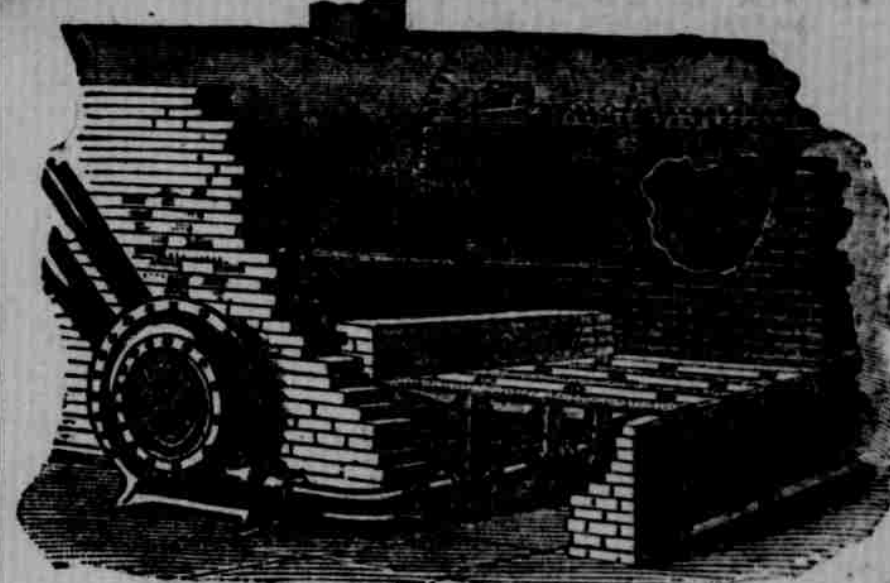
The sales department will be managed by Secretary Lewis, a gentleman

W. D. Johnson was one of the charter members of the City-National bank and president of that organization for five years. He is also treasurer of the Ranney Refrigerator company and holder of stock in the Gordon Hollow Blast Grate company. The interest of the firm at the present time centers in Riverside park, one of the most perfectly appointed and stocked farms in Michigan. Eight hundred acres are included in the farm, part of which lies within the corporate limits of Greenville. It is stocked with 40

526, record 240. He is a sire of Bill Fairplains, 3 years, 252, Elmo Echo 2 years, 246. Trial in 240.

S. J. Fletcher is a blood bay, blue points, stands 16 hands high, a horse of the very highest finish, rangy as a styler, with plenty of substance, large flat, strong bone and the very best feet and legs; a pure gated, natural trotter and wonderfully speedy.

Second in the stud is Gowan, Jan. 12, 1918. Dark bay, blue points, stands 15 hands and 3 inches high, long mane and tail, foaled April 22, 1889, bred by G. A. C. P. Cecil, Danville, Ky. Gowan



Gordon Grate in Position

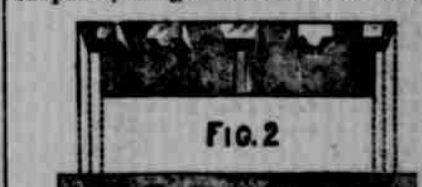
the production of one of the most valuable inventions of modern mechanica. The business is conducted under the firm name of the Gordon Hollow Grate company, a corporation. Its officers are: President, E. F. Sprague; vice-president, E. J. Gordon; secretary and treasurer, T. J. Potter. These, with C. W. Johnson, constitute the board of directors. The firm was incorporated in March 1890, and is now supplying 200 furnaces annually. It owns patents for Canada and the United States, and distributes its commodities to every section of the two countries.

of Grand Rapids, says this:
"After a year's trial we utterly failed in every effort to burn our hand-mill sawdust, and were compelled to cart away at considerable expense, and it required the use of all our slabs and edgings after they were seasoned to make sufficient steam to run the mill. Since putting in your hollow block grates we have burned every bushel of sawdust without difficulty, and thus with a few edgings right from the saw has given us all the steam we had need for. We are now piling up about 30 cords of slabs per month, which re-



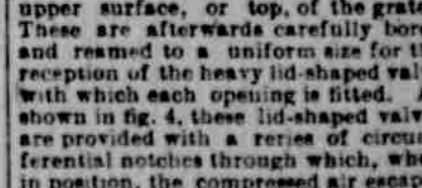
The Tuyere.

the furnace for which it is to be used. Regular lengths are 36, 42, 48, 54, 60 and 72 inches. These are kept in stock; others are made to order. An air chamber having a transverse area 3½ by 6 inches extends throughout the body of the grate. This affords ample space for the passage of a volume of air sufficient to sustain combustion in the furnace. See fig. 4.




1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

Flue—Cross Section.



furnace fires.




There are twenty-five head of your stock—fillies, stallion colts and geldings, principally bays, with black points. There are about fifty heads of young and choice stock on the place. The stock is all of Wilkes and Hambleton.



Top and Side View of Grate


C. T. Wright is proprietor and operator of the Greenville Electric Light works, a thoroughly modern and complete plant. The building is an all-brick structure operated by either water or steam power, as the exigencies may require. It is fitted with the Thompson-Houston system, supplying forty-five arc lights for streets and offices, 400 incandescents for building.

The Ranney Refrigerator plant is a large tract of several acres in extent situated upon the bank of Flat river and traversed by the Grand Trunk and C. & W. M. systems. It is an immense brick structure containing 60,000 square feet of floor surface, capable of employing 150 men. The plant consists of a saw mill, lumber yards, factory buildings and storage warehouses. The main factory building is fitted with full complement of modern machinery of the most effectual type, is 100x2 feet, three stories high. The whole



Flue—Cross Section.

upper surface, or top, of the grate. These are afterwards carefully bolted and reamed to a uniform size for the reception of the heavy lid-shaped valve with which each opening is fitted. As shown in fig. 4, these lid-shaped valves are provided with a series of circumferential notches through which, when in position, the compressed air escapes to fan the furnace fires. At the bottom of each opening a strong cast-iron plate is provided for the support of the valve.



Top and Side

this, with a series of lateral projections on the valve itself, serves to hold it securely in place and prevent escape of air.

As all valves are carefully fitted to standard opening, they are interchangeable, and as each is held in position by its own weight—no bolts are used—it is removable at pleasure. This is an important feature, as it permits a man to change the blast supply



Fig 4